



# SEQUENCE LISTING

<110> Hallenbeck, Paul  
Chen, Cheauyun Theresa

<120> ADENOVIRAL VECTORS INCLUDING DNA SEQUENCES ENCODING ANGIOGENIC INHIBITORS

<130> 4-30899P1

<140> US 09/373,938

<141> 1999-08-13

<160> 17

<170> PatentIn version 3.1

<210> 1

<211> 624

<212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (1)..(624)

<223>

<400> 1

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Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro	
1 5 10 15	

ggt tcc act ggt gac gcg gcc cat act cat cag gac ttt cag cca gtg	96
Gly Ser Thr Gly Asp Ala Ala His Thr His Gln Asp Phe Gln Pro Val	
20 25 30	

ctc cac ctg gtg gca ctg aac acc ccc ctg tct gga ggc atg cgt ggt	144
Leu His Leu Val Ala Leu Asn Thr Pro Leu Ser Gly Gly Met Arg Gly	
35 40 45	

atc cgt gga gca gat ttc cag tgc ttc cag caa gcc cga gcc gtg ggg	192
Ile Arg Gly Ala Asp Phe Gln Cys Phe Gln Gln Ala Arg Ala Val Gly	
50 55 60	

ctg tgc ggc acc ttc cgg gct ttc ctg tcc tct agg ctg cag gat ctc	240
Leu Ser Gly Thr Phe Arg Ala Phe Leu Ser Ser Arg Leu Gln Asp Leu	
65 70 75 80	

tat agc atc gtg cgc cgt gct gac cgg ggg tct gtg ccc atc gtc aac	288
Tyr Ser Ile Val Arg Arg Ala Asp Arg Gly Ser Val Pro Ile Val Asn	
85 90 95	

ctg aag gac gag gtg cta tct ccc agc tgg gac tcc ctg ttt tct ggc	336
Leu Lys Asp Glu Val Leu Ser Pro Ser Trp Asp Ser Leu Phe Ser Gly	
100 105 110	

tcc cag ggt caa gtg caa ccc ggg gcc cgc atc ttt tct ttt gac ggc	384
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Ser Gln Gly Gln Val Gln Pro Gly Ala Arg Ile Phe Ser Phe Asp Gly  
 115 120 125  
 aga gat gtc ctg aga cac cca gcc tgg ccg cag aag agc gta tgg cac 432  
 Arg Asp Val Leu Arg His Pro Ala Trp Pro Gln Lys Ser Val Trp His  
 130 135 140  
 ggc tgc gac ccc agt ggg cgg agg ctg atg gag agt tac tgt gag aca 480  
 Gly Ser Asp Pro Ser Gly Arg Arg Leu Met Glu Ser Tyr Cys Glu Thr  
 145 150 155 160  
 tgg cga act gaa act act ggg gct aca ggt cag gcc tcc tcc ctg ctg 528  
 Trp Arg Thr Glu Thr Thr Gly Ala Thr Gly Gln Ala Ser Ser Leu Leu  
 165 170 175  
 tca ggc agg ctc ctg gaa cag aaa gct gcg agc tgc cac aac agc tac 576  
 Ser Gly Arg Leu Leu Glu Gln Lys Ala Ala Ser Cys His Asn Ser Tyr  
 180 185 190  
 atc gtc ctg tgc att gag aat agc ttc atg acc tct ttc tcc aaa tag 624  
 Ile Val Leu Cys Ile Glu Asn Ser Phe Met Thr Ser Phe Ser Lys  
 195 200 205

<210> 2  
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 <212> PRT  
 <213> Mus musculus

<400> 2

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro  
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 Leu His Leu Val Ala Leu Asn Thr Pro Leu Ser Gly Gly Met Arg Gly  
 35 40 45  
 Ile Arg Gly Ala Asp Phe Gln Cys Phe Gln Gln Ala Arg Ala Val Gly  
 50 55 60  
 Leu Ser Gly Thr Phe Arg Ala Phe Leu Ser Ser Arg Leu Gln Asp Leu  
 65 70 75 80  
 Tyr Ser Ile Val Arg Arg Ala Asp Arg Gly Ser Val Pro Ile Val Asn  
 85 90 95  
 Leu Lys Asp Glu Val Leu Ser Pro Ser Trp Asp Ser Leu Phe Ser Gly  
 100 105 110

Ser Gln Gly Gln Val Gln Pro Gly Ala Arg Ile Phe Ser Phe Asp Gly  
 115 120 125

Arg Asp Val Leu Arg His Pro Ala Trp Pro Gln Lys Ser Val Trp His  
 130 135 140

Gly Ser Asp Pro Ser Gly Arg Arg Leu Met Glu Ser Tyr Cys Glu Thr  
 145 150 155 160

Trp Arg Thr Glu Thr Thr Gly Ala Thr Gly Gln Ala Ser Ser Leu Leu  
 165 170 175

Ser Gly Arg Leu Leu Glu Gln Lys Ala Ala Ser Cys His Asn Ser Tyr  
 180 185 190

Ile Val Leu Cys Ile Glu Asn Ser Phe Met Thr Ser Phe Ser Lys  
 195 200 205

<210> 3  
 <211> 42  
 <212> PRT  
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<400> 3

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro  
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Gly Ser Thr Gly Asp Ala Ala His Thr His Gln Asp Phe Gln Pro Val  
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Leu His Leu Val Ala Leu Asn Thr Pro Leu  
 35 40

<210> 4  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)..(627)  
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<400> 4

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1 5 10 15	
gca gcc cct cag caa gaa gcg ctc gct cac agc cac cgc gac ttc cag	96
Ala Ala Pro Gln Gln Glu Ala Leu Ala His Ser His Arg Asp Phe Gln	
20 25 30	
ccg gtg ctc cac ctg gtt gcg ctc aac agc ccc ctg tca ggc ggc atg	144
Pro Val Leu His Leu Val Ala Leu Asn Ser Pro Leu Ser Gly Gly Met	
35 40 45	
cgg ggc atc cgc ggg gcc gac ttc cag tgc ttc cag cag gcg cgg gcc	192
Arg Gly Ile Arg Gly Ala Asp Phe Gln Cys Phe Gln Gln Ala Arg Ala	
50 55 60	
gtg ggg ctg gcg ggc acc ttc cgc gcc ttc ctg tcc tcg cgc ctg cag	240
Val Gly Leu Ala Gly Thr Phe Arg Ala Phe Leu Ser Ser Arg Leu Gln	
65 70 75 80	
gac ctg tac agc atc gtg cgc cgt gcc gac cgc gca gcc gtg ccc atc	288
Asp Leu Tyr Ser Ile Val Arg Arg Ala Asp Arg Ala Ala Val Pro Ile	
85 90 95	
gtc aac ctc aag gac gag ctg ctg ttt ccc agc tgg gag gct ctg ttc	336
Val Asn Leu Lys Asp Glu Leu Leu Phe Pro Ser Trp Glu Ala Leu Phe	
100 105 110	
tca ggc tct gag ggt ccg ctg aag ccc ggg gca cgc atc ttc tcc ttt	384
Ser Gly Ser Glu Gly Pro Leu Lys Pro Gly Ala Arg Ile Phe Ser Phe	
115 120 125	
gac ggc aag gac gtc ctg agg cac ccc acc tgg ccc cag aag agc gtg	432
Asp Gly Lys Asp Val Leu Arg His Pro Thr Trp Pro Gln Lys Ser Val	
130 135 140	
tgg cat ggc tcg gac ccc aac ggg cgc agg ctg acc gag agc tac tgt	480
Trp His Gly Ser Asp Pro Asn Gly Arg Arg Leu Thr Glu Ser Tyr Cys	
145 150 155 160	
gag acg tgg cgg acg gag gct ccc tcg gcc acg ggc cag gcc tcc tcg	528
Glu Thr Trp Arg Thr Glu Ala Pro Ser Ala Thr Gly Gln Ala Ser Ser	
165 170 175	
ctg ctg ggg ggc agg ctc ctg ggg cag agt gcc gcg agc tgc cat cac	576
Leu Leu Gly Gly Arg Leu Leu Gly Gln Ser Ala Ala Ser Cys His His	
180 185 190	
gcc tac atc gtg ctc tgc att gag aac agc ttc atg act gcc tcc aag	624
Ala Tyr Ile Val Leu Cys Ile Glu Asn Ser Phe Met Thr Ala Ser Lys	
195 200 205	
tag	627
<210> 5	
<211> 208	

<212> PRT  
<213> Homo sapiens

<400> 5

Met Arg Ala Trp Ile Phe Phe Leu Leu Cys Leu Ala Gly Arg Ala Leu  
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Ala Ala Pro Gln Gln Glu Ala Leu Ala His Ser His Arg Asp Phe Gln  
20 25 30

Pro Val Leu His Leu Val Ala Leu Asn Ser Pro Leu Ser Gly Gly Met  
35 40 45

Arg Gly Ile Arg Gly Ala Asp Phe Gln Cys Phe Gln Gln Ala Arg Ala  
50 55 60

Val Gly Leu Ala Gly Thr Phe Arg Ala Phe Leu Ser Ser Arg Leu Gln  
65 70 75 80

Asp Leu Tyr Ser Ile Val Arg Arg Ala Asp Arg Ala Ala Val Pro Ile  
85 90 95

Val Asn Leu Lys Asp Glu Leu Leu Phe Pro Ser Trp Glu Ala Leu Phe  
100 105 110

Ser Gly Ser Glu Gly Pro Leu Lys Pro Gly Ala Arg Ile Phe Ser Phe  
115 120 125

Asp Gly Lys Asp Val Leu Arg His Pro Thr Trp Pro Gln Lys Ser Val  
130 135 140

Trp His Gly Ser Asp Pro Asn Gly Arg Arg Leu Thr Glu Ser Tyr Cys  
145 150 155 160

Glu Thr Trp Arg Thr Glu Ala Pro Ser Ala Thr Gly Gln Ala Ser Ser  
165 170 175

Leu Leu Gly Gly Arg Leu Leu Gly Gln Ser Ala Ala Ser Cys His His  
180 185 190

Ala Tyr Ile Val Leu Cys Ile Glu Asn Ser Phe Met Thr Ala Ser Lys  
195 200 205

<210> 6  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 6

Met Arg Ala Trp Ile Phe Phe Leu Leu Cys Leu Ala Gly Arg Ala Leu  
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Pro Val Leu  
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<210> 7  
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<212> PRT  
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<400> 7

Ala Pro Gln Gln Glu Ala Leu Ala  
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<210> 8  
<211> 38  
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<211> 32  
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<220>  
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<400> 9  
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32

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<220>

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cactgcttac tggcttatcg

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<210> 11

<211> 26

<212> DNA

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<223> Primer

<400> 11

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<212> DNA

<213> Artificial Sequence

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<223> Primer

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<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 14

cagatgacat cctggccag

19

<210> 15  
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 <212> DNA  
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<220>  
 <223> Primer

<400> 15  
 ctatacagga aagtatggca gc 22

<210> 16  
 <211> 118  
 <212> DNA  
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<220>  
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<400> 16  
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 cagcccctca gcaagaagcg ctgcctcaca gccaccgcga cttccagccg gtgctcca 118

<210> 17  
 <211> 123  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense oligonucleotide

<400> 17  
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 ctgccagagc cctcccggcc aggcaaagga gaaagaagat ccaggccctc atggaagctt 120  
 ggc 123